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Date: 4/5/01 By: Deborah Brockmeyer

DOCKET NO.: 5525-0015.21

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Stephen C. Macevicz

EXAMINER: Frank Lu

SERIAL NO.: 09/280,270

ART UNIT: 1655

FILED: March 29, 1999

FOR: **DNA Sequencing by Parallel
Oligonucleotide Extensions**

Amendment under 37 CFR §1.116

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office action mailed January 10, 2001 in the above-identified application, please amend the application as indicated below. Enclosed herewith are a Terminal Disclaimer under 37 CFR §1.321(b) and (c), a Notice of Appeal, and a check for \$420 (\$110 Disclaimer fee and \$310 Appeal fee).

In the Claims:

Please replace claims 21 and 22 with the rewritten claims below, and cancel claims 20, 26, 29, 30 and 32. Also enclosed, starting on a separate page following this response, is a marked copy of the presently amended claims showing all changes relative to the previous version.

22. (Twice Amended) A kit for DNA sequence analysis, the kit comprising one or more sets of oligonucleotide probes, wherein

- (i) each probe set contains at least 50 different-sequence, single-stranded oligonucleotide probes, (ii) the oligonucleotide probes of a set have a selected length of up to 12 nucleotides, and (iii) for at least one said probe set, the different-sequence, single stranded oligonucleotide probes in that set have annealing temperatures whose maximum and minimum values differ from each other by no more than 1°C.